CLAIMS:

1. Centrifugal drum (1) for a separator, having a vertical axis of rotation and having

a) a drum bottom part (2) and a drum cover (3) which is fastened to the drum bottom part (2) by means of a locking ring (10),

characterized in that

b) between the drum bottom part (2) and the drum cover (3), a centering ring (13) is arranged such while being pretensioned that it sealingly and centeringly braces the drum bottom part (2) and the drum cover (3) relative to one another.

2. Centrifugal drum according to Claim 1,

characterized in that the drum cover (3) engages in the drum bottom part (3), and in that the centering ring (11) is arranged between the outer circumference of the drum cover (3) and the inner circumference of the drum bottom part (2), the centering ring (13) being designed such that the centering and sealing effect is maintained during the operation to the maximal rotational speed of the separator.

3. Centrifugal drum according to Claim 1 or 2,

characterized in that the centering ring (11), while being axially pretensioned, is arranged between the outer circumference of the drum cover (3) and the inner circumference of the drum bottom part (2).

4. Centrifugal drum according to one of the preceding claims,

characterized in that the centering ring (13) consists of an elastically deformable material, particularly of rubber.

5. Centrifugal drum according to one of the preceding claims,

characterized in that the centering ring (13) is elastically arranged between the outer circumference of the drum cover (3) and the inner circumference of the drum bottom part (2).

6. Centrifugal drum according to one of the preceding claims,

characterized in that an inner collar (7) is shaped onto the inner circumference of the upper ring section (6) of the drum bottom part (2), on which collar (7) a correspondingly

complementarily shaped collar (8) rests which is situated on the outer circumference of a lower ring section (9) of the drum cover (3).

7. Centrifugal drum according to one of the preceding claims, characterized in that, in the installed position, a pressure element, particularly a ring disk (14), acts upon the centering ring (13) from above or below, which ring disk (14) presses the centering ring upon a collar at the drum cover (1) or at the drum bottom part (3).

8. Centrifugal drum according to one of the preceding claims, characterized in that the centering ring (13) is arranged above the outer collar (8) of the drum cover (3).

9. Centrifugal drum according to one of the preceding claims, characterized in that the ring disk 11 is dimensioned such that, on the one hand, it covers the gap between the inner circumference of the drum bottom part (2) and the outer circumference of the drum cover (3) in the area above the collar (8), and, on the other hand, rests on a step (15) of the drum bottom part in the inward direction.

10. Centrifugal drum according to one of the preceding claims, characterized in that, by dimensioning the width (b) and the height (h) of the space for the centering ring (13) between the drum bottom part (2) and the drum cover (3) and by dimensioning and selecting the material of the centering ring (13), the radial spring effect of the centering ring (13) is adjusted such that the centering and sealing effect in the operation is maintained to the maximal rotational speed of the separator.